

(b) measuring the amount of soluble LAG-3 in the sample of human fluid that is bound to the soluble LAG-3 specific antibody or fragment, to diagnose the presence of a **Th1**-mediated disease or disorder;

(6) a method (G) for treating **Th1**-mediated disease comprising directing a cytotoxic agent to cells expressing the LAG-3 protein on the surface so as to selectively kill the **Th1** lymphocytes;

(7) a method (H) of enhancing a **Th1**-mediated immune response, comprising administering to a subject a compsn. comprising an antibody or fragment, specific for LAG-3, to polarise the differentiation of **Th0** cells to **Th1** cells;

(8) use of a cytotoxic agent directed to cells expressing the LAG-3 protein on the surface for the mfr. of a drug for the treatment of **Th1**-mediated diseases;

(9) use of an antibody or fragment, specific for LAG-3 for the mfr. of a drug to enhance **Th1**-mediated immune response, and

(10) use of ex vivo expanded **Th1** or **Th2** cells for the mfr. of a drug for treatment of infectious diseases, **Th1**-mediated diseases, cancer, and disease and disorders associated with an imbalance in the population of **Th1** and **Th2** cells.

USE - The methods can be used for the diagnosis and treatment of **Th1**-mediated diseases and disorders such as autoimmune diseases, e.g. multiple sclerosis, type 1 diabetes mellitus, rheumatoid arthritis or transplant rejection. They can also be used for the treatment of infectious diseases, cancers and allergies.

Dwg.0/7

FS CPI EPI

FA AB

MC CPI: B04-B04D2; B04-F04; B04-G06; B11-C07A; B12-K04A; B14-A01; B14-G02; B14-H01; D05-H09; D05-H10; D05-H13

EPI: S03-E14H4

=> => d his

(FILE 'HOME' ENTERED AT 12:52:28 ON 22 FEB 2005)

SET COST OFF

FILE 'HCAPLUS' ENTERED AT 12:52:40 ON 22 FEB 2005

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L1      3 S (US20030134415 OR US20030194395 OR US20030134341)/PN OR (WO20
      E GRUENBERG M/AU
L2      21 S E4,E6-E8
      E MEDCELL/PA,CS
L3      5 S E3-E12
      E T CELL/CT
L4      7342 S E17
L5      7470 S E4 (L) TH1
L6      9589 S E4 (L) HELPER (L) INDUCER
L7      15342 S TH1 OR TH 1
L8      16930 S L4-L7
L9      5691 S L8 AND ACTIVAT?
      E CELL ACTIVATION/CT
L10     11781 S E3-E13
      E E3+ALL
L11     11781 S E1
L12     717 S L8 AND L10,L11
L13     5691 S L9,L12
L14     301 S L13 AND MITOGEN?
L15     362 S L13 AND ANTI() (CD3 OR CD28 OR CD() (3 OR 28))
      E CD3/CT
      E E4+ALL
L16     177 S L13 AND E6,E5+NT
      E CD28/CT

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      E E4+ALL
L17      203 S L13 AND E7,E6
L18      591 S L15-L17
L19      846 S L14,L18
L20      4 S L19 AND (MICROSPHER? OR MICROBEAD? OR NANOSPHER? OR NANOBEAD?
L21      10 S L19 AND ?BEAD? NOT L20
L22      11 S L20,L21 AND L4,L5,L7
L23      41 S L19 AND POLYCLON?
L24      0 S L19 AND POLY CLON?
L25      1 S L23 AND L20-L22
L26      234 S L4,L5,L7 AND (POLYCLON? OR POLY CLON?)
L27      132 S L26 AND (ACTIVAT? OR L10 OR L11)
L28      57 S L27 AND ANTIBOD?
L29      20 S L27 AND (MOAB OR MAB OR PAB OR POAB OR FAB OR F AB)
L30      31 S L27 AND (CD3 OR CD28 OR CD() (3 OR 28))
L31      12 S L27 AND L16,L17
L32      76 S L28-L31
L33      18 S L27 AND MITOGEN?
L34      80 S L32,L33
L35      0 S L34 AND ?BEAD?
L36      1 S L34 AND (MICROSPHER? OR NANOSPHER? OR NANOBEAD? OR MICROPARTI
L37      5 S L2,L3 AND L4-L36
L38      5 S L1,L37,L25,L36
L39      79 S L34 NOT L38
      SEL DN AN 17 20 40 44 45 47 76
L40      7 S L39 AND E1-E21
L41      12 S L38,L40
L42      21 S L8 AND C12N005-08/IPC
L43      17 S L42 NOT L41
L44      72 S L8 AND A61K039-395/IPC
      E A61K039-395/IPC
L45      2 S L8 AND E6-E18
L46      3 S L42-L45 AND (MICROBEAD? OR NANOBEAD? OR MICROSPHER? OR NANOSP
L47      71 S L44 NOT L41
L48      12 S L41 AND L1-L47

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FILE 'HCAPLUS' ENTERED AT 13:29:38 ON 22 FEB 2005

FILE 'BIOSIS' ENTERED AT 13:31:02 ON 22 FEB 2005

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      E GRUENBERG M/AU
L49      15 S E3,E4,E7
      E GRUNBERG M/AU

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FILE 'MEDLINE' ENTERED AT 13:32:05 ON 22 FEB 2005

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      E GRUENBERG M/AU
L50      8 S E3,E5
      E TH1/CT
      E E5+ALL
L51      6505 S E19
      E E18+ALL
L52      17658 S E18+NT
      E CELL ACTIVATION/CT
      E ACTIVATION/CT
L53      45 S L51,L52 AND (MICROBEAD? OR NANOBEAD? OR MICROSPHER? OR NANOSP
L54      600 S L51,L52 AND ANTI() (CD3 OR CD28 OR CD() (3 OR 28))
L55      34 S L54 AND POLYCLON?
      E ANTIGENS, CD3/CT
L56      8224 S E3+NT
      E ANTIGENS, CD28/CT
L57      2706 S E3+NT
L58      605 S L51,L52 AND L56,L57
L59      24 S L58 AND POLYCLON?
L60      48 S L55,L59

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L61 1096 S L51,L52 AND MITOGEN?
 L62 1 S L61 AND L53
 L63 53 S L61 AND L58
 L64 2 S L63 AND L60
 L65 3 S L62,L64
 L66 97 S L60,L63 NOT L65
 SEL DN AN 16 48
 SEL DN AN 81
 L67 3 S E1-E6
 L68 6 S L65,L67 AND L50-L67

FILE 'MEDLINE' ENTERED AT 14:01:23 ON 22 FEB 2005

FILE 'WPIX' ENTERED AT 14:11:02 ON 22 FEB 2005

L69 1339 S (TH1 OR TH 1)/BIX
 L70 111 S L69 AND A61K039-395/IPC
 E A61K039-395/IPC
 E A61K039-395/IC,ICM,ICA
 L71 8 S L69 AND E7-E27
 E A61K039-395/ICS,ICI
 L72 7 S L69 AND E5-E19
 E A61K039:395/ICI
 L73 3 S L69 AND E3-E6
 L74 114 S L70-L73
 L75 48 S L74 AND C12N005/IPC
 E GRUNBERG M/AU
 L76 19 S E3,E4
 E GRUNBERG M/AU
 E GREUNBERG M/AU
 E MEDCELL/PA
 L77 13 S E3-E6
 L78 8 S L69 AND L76,L77
 L79 3 S L1
 L80 8 S L78,L79
 L81 4 S L74 AND L80
 L82 8 S L80,L81
 L83 129 S L69 AND (?BEAD? OR ?SPHER? OR ?PARTICL?)/BIX
 L84 24 S L83 AND L74
 L85 13 S L75 AND L84
 SEL DN AN 10 11
 L86 11 S L85 NOT E1-E4
 L87 17 S L82,L86
 L88 12 S L84 NOT L87
 L89 34 S L75 NOT L84-L88
 SEL DN AN 33
 L90 1 S E5-E7
 L91 18 S L87,L90 AND L69-L90
 L92 6 S T HELPER CELL 1/BIX
 L93 0 S T HELPER INDUCER CELL 1/BIX
 L94 0 S HELPER INDUCER CELL 1/BIX
 L95 6 S HELPER CELL 1/BIX
 L96 6 S L92,L95

FILE 'WPIX' ENTERED AT 14:29:45 ON 22 FEB 2005
 SET COST ON

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